

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

COUNTRY USSR (Gorkiy Oblast)

REPORT

SUBJECT Water Transportation Engineering
Institute in Gorkiy

DATE DISTR. 2 November 1959

NO. PAGES 1

REFERENCES

DATE OF
INFO.

50X1-HUM

PLACE &
DATE ACQ.

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SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

A five-page report on the Water Transportation Engineering Institute in Gorkiy (N 56-20, E 44-00)

50X1-HUM

Attached to the report are two diagrams of the organization of the institute and four sketches of the floor plans of the institute's four floors.

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STATE	X	ARMY	X	NAVY	X	AIR	15	FBI	AEC								
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SUBJECT: Water Transportation Engineering
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Identification and Location

1. The Water Transportation Engineering Institute, which was subordinate to the Ministry of the Maritime and River Fleet, was located on ulitsa Minina and Pozharskogo in the Sverdlovskiy rayon, Gorkiy (N 56-20, E 44-00). There were three schools within the Institute (for further details see paragraph 4 below) and instruction was in the Russian language. (Refer to organizational charts — sketches Nos. 1 and 2— and sketches Nos. 3, 4, 5 and 6 which show the first, second, third and fourth floor plans.) The students, numbering approximately 1,200, came from all parts of the USSR and included both males and females; there were, however, more male than female students.

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Admission Requirements

2. Males and females up to 30 years of age [redacted] with a diploma indicating they had finished the ten-year school or the seventh class plus a trade school were eligible to attend without regard to their political or religious affiliations. Furthermore, all applicants except those with outstanding marks in their previous schooling had to take an entrance examination; those who had only completed the seventh class also had to write a letter to the institute's director requesting entrance.

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Scholastic System

3. Attendance at class was not compulsory. However, there were no correspondence courses nor was it possible to do courses simultaneously. There were no time limitations for completing the institute. If, after missing classes for some time for a good reason, a student could catch up with his classmates, he was permitted to take his examinations along with his class. When unable to make up his work, he was permitted to repeat the course. But a student who missed his class work without justification was expelled. [redacted]

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[redacted] Each case was studied by the management which determined whether or not the student could repeat the course depending upon the circumstances.

Curriculum

4. There were three schools: exploitation (sic), construction and mechanics. Five years of study was required for each degree. During the first four years classes began on 21 September and ended the last of May. The fifth year ran from September to February in which month students began working on their theses which they had to defend the end of August. Subjects covered in each course were as follows:

First year: Marxism-Leninism, English, higher mathematics, chemistry, economics of water transportation, physics, descriptive geometry, and design.

Second year: Marxism-Leninism, English, higher mathematics, physics, chemistry, design, strength of materials, statics, and structure of metals.

Third year: Marxism-Leninism, English, strength of materials, hydraulics, structure of materials, machine details, theory of mechanism and machinery, dynamics, electrotechnics, and theory and construction of ships.

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Fourth year: English, internal combustion engines, electrotechnics, electrical installations on ships, thermodynamics, heat conduction, steam engines, turbines in general, cold-metal cutting, theory and construction of propellants (screw propellers, wheels), electric and gas welding, and, steam boilers.

Fifth year: English, internal combustion engines, organization and technology of ship repairs, general installations (arrangement of propellant and auxiliary machinery in the engine room and the rest of the ship), screw propellers, steam engines and turbines.

5. During the course of their studies the students did various types of laboratory work related to the course they were taking and, during the first and second years, were also trained in sketching. In addition, they received the following practical training after finishing each year of schooling: at the end of the first year, training in molding, smelting and forging; at the end of the second, training in lathe-turning and fitting; at the end of the third, navigation in ships propelled by internal combustion engines; at the end of the fifth, work related to the individual thesis.

there was more theory than practice. Grades ranged from 1 (failure) to 5 (outstanding); the minimum passing mark was 3. The graduates received degrees as development engineers, ship construction engineers and mechanical construction engineers and were prepared to assist in the development of the fleet, to construct ships' hulls and to construct the principal and auxiliary machinery for ships. On graduating, students were told what shipyards or naval plants in the USSR needed personnel and were allowed to choose where they wanted to be sent; they were assigned on the basis of their qualifications. Credits acquired elsewhere were not accepted in this Institute.

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Pre-military Instruction

6. Soviet students received military ranks and attended camps

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Political Instruction

7. During the first three years all students were given political-economics instruction, comparing Capitalism and Socialism. This was an extra course included in the curriculum; it was organized by a separate department which functioned like all others.

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Economic Factors

8.

[redacted] Soviet students received stipends ranging from 300 rubles a month during the first year of study to 450 during the fifth year. This stipend was taken away from students who did not receive a passing grade of 3. Two awards, called the Stalin and the Kirov awards, were given to the most outstanding students; the prizes amounted to 800 and 600 rubles a month, respectively. Students paid for their meals and could, if they chose, eat in the Institute's dining room at a cost of seven rubles a day. Lodgings were available in the city for all students. The Institute furnished all school supplies, except notebooks, free of charge and students could obtain books from the Institute library; however, if they did not return them after they had served their purpose they were obliged to pay a small percentage of the cost of the books. Students were obliged to wear uniforms which they paid for over a two or three year period, and were responsible for their upkeep (laundering and pressing). The uniform consisted of straight black trousers, a single-breasted, high-collared navy blue jacket which fastened with five buttons and had four pockets, a double-breasted coat, a service cap without insignia, and black boots; on the epaulets were a gilt anchor and a black stripe with green trimming. There were no dues for clubs, sports or recreational activities but Party and Komsomol members paid dues.

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Schedules

9. Students were divided into two groups: the first had classes from 0800 to 1400 hours and from 1700 to 1900 while the time for training periods varied; the second group had their training in the forenoons (the hours varied) and classroom instruction from 1400 to 2000 hours. There were no classes on holidays. Vacations began on 15 July and ended on 15 or 21 September. Special leave was granted when necessary, as in the case of illness or family needs. Students could go to rest homes during their vacations and also during the school term if they were ill and were ordered to do so by a doctor.

Soviet Faculty Members

10. The faculty included the following:

a. *called* Vol'skiy (fnu) — a doctor of technical sciences, who taught a course on strength of materials.

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- b. Litakovskiy (fnu) — a doctor of technical sciences and an expert on electrotechnics and electrical installations on ships.

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- c. Sivertsev (fnu) — a doctor of technical sciences and an expert on screw propellers

- d. ✓Yurinskiy (fnu) — a doctor of technical sciences who taught classes on thermodynamics, turbines and boilers.

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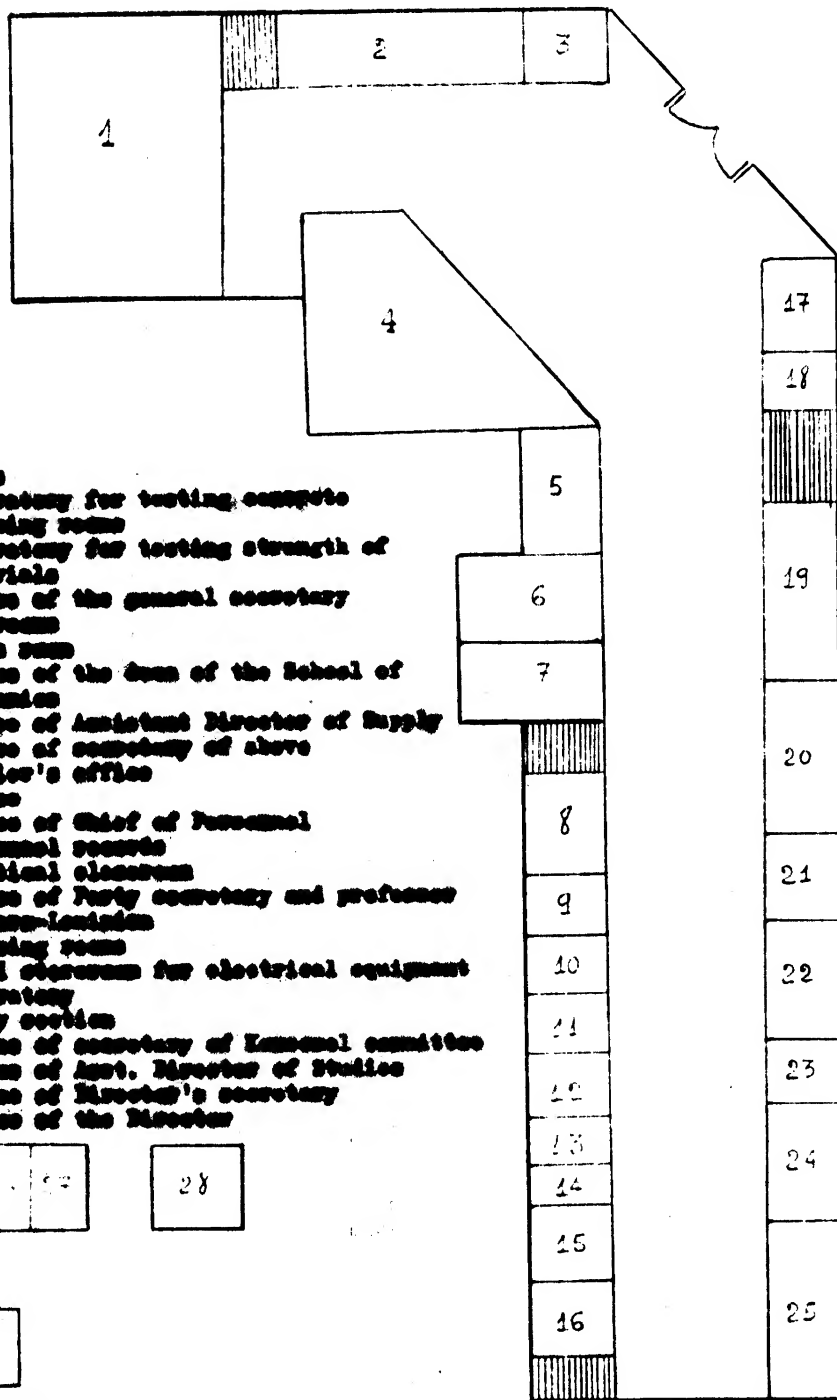
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Legend

1. Shop
2. Laboratory for testing concrete
3. Dressing rooms
4. Laboratory for testing strength of materials
5. Office of the general secretary
6. Bathroom
7. Men's room
8. Office of the dean of the School of Mechanism
9. Office of Assistant Director of Supply
10. Office of secretary of above
11. Cashier's office
12. Office
13. Office of Chief of Personnel
14. Personnel records
15. Political classroom
16. Office of Party secretary and professor of Marx-Leninism
17. Dressing rooms
18. Small storeroom for electrical equipment
19. Laboratory
20. Study section
21. Office of secretary of Internal committee
22. Office of Asst. Director of Studies
23. Office of Director's secretary
24. Office of the Director

25. Classroom
26. Laboratory for steam engines
27. Laboratory for boilers
28. Foundry and Forge (for training purposes)
29. Engine laboratory

Sketch of the first floor plan of the Water Transportation Engineering Institute in Gorkiy.

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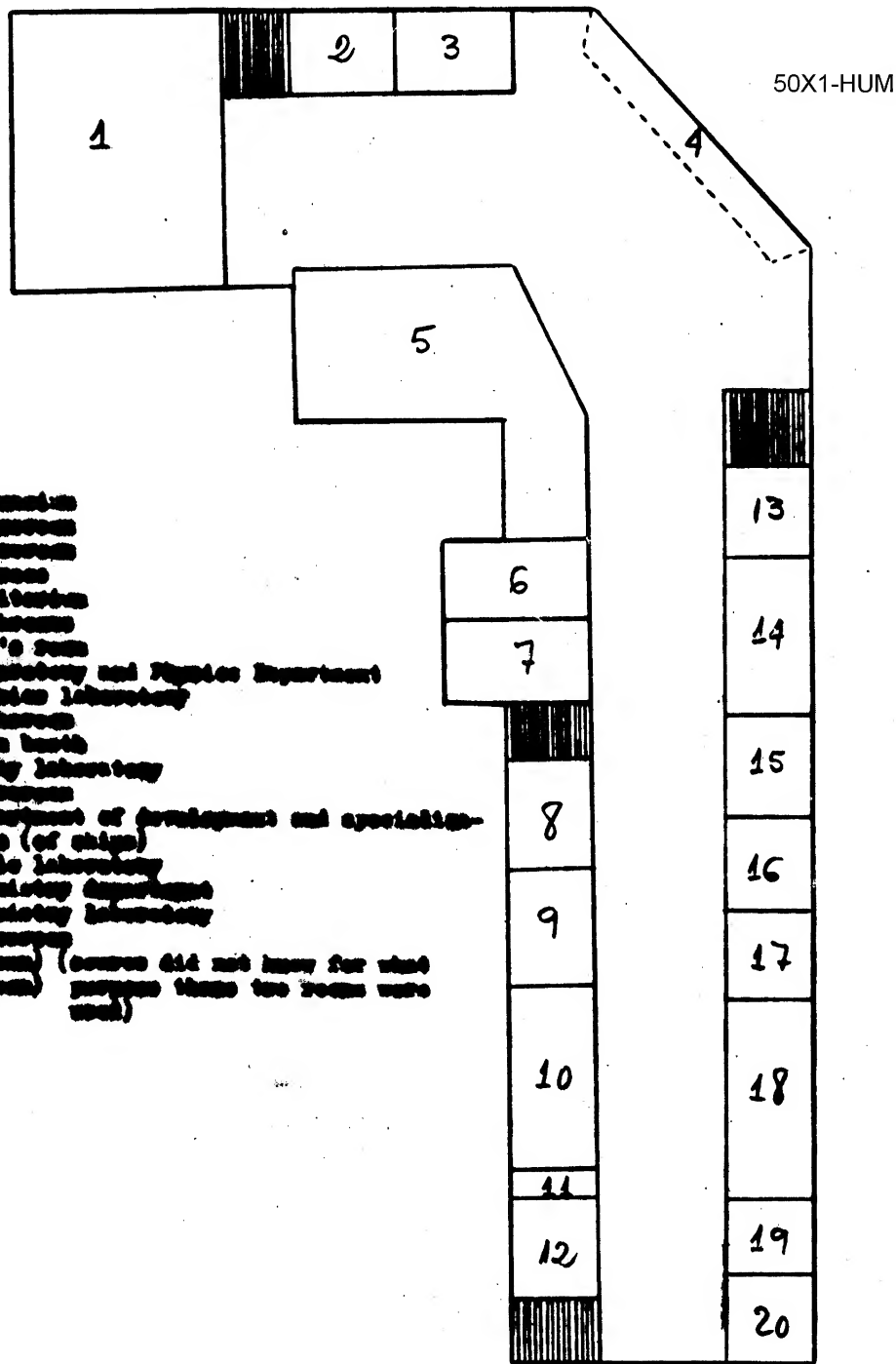
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Sketch of the second floor plan of the Water
Transportation Engineering Institute in Gorkiy

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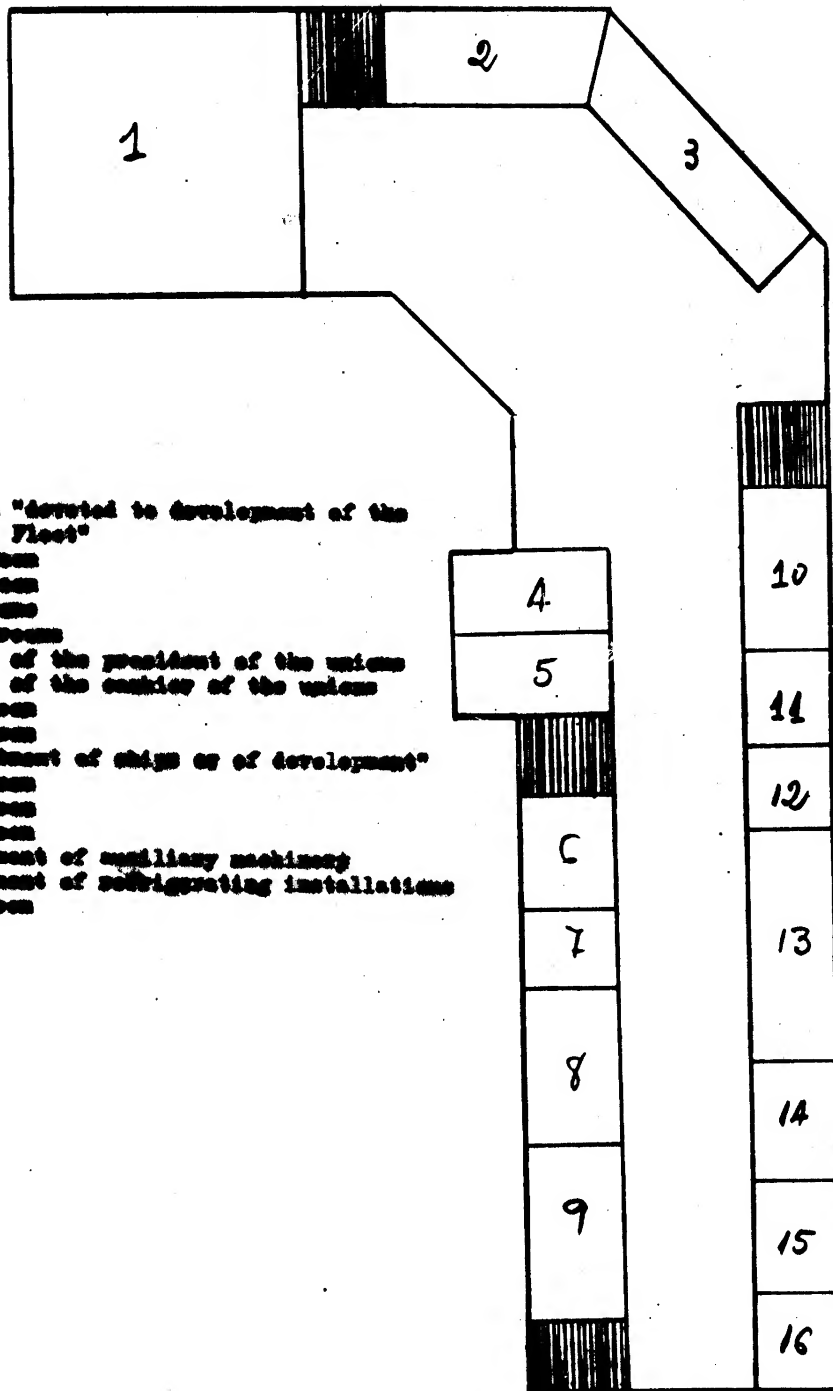
CONFIDENTIALAnnex V**Legend**

1. Quarters
2. Classroom
3. Classroom
4. Terrace
5. Exhibition
6. Workshop
7. Men's room
8. Laboratory and Physics Department
9. Physics Laboratory
10. Classroom
11. Film booth
12. Study Laboratory
13. Classroom
14. Department of development and specialization (of ships)
15. Radio Laboratory
16. Chemistry Department
17. Chemistry Laboratory
18. Classroom
19. A room (source did not know for what purpose these two rooms were used)
20. A room

Sketch of the third floor plan of the Water
Transportation Engineering Institute in Gorkiy

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Sketch of the fourth floor plan of the Water
Transportation Engineering Institute in Gorkiy

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